

isolated nucleic acid molecule comprising a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence as compared to that of SEQ ID No. 1.; (b) SEQ ID No. 1; and (c) SEQ ID No. 2; and (ii) optionally substances for analytical detection processes.

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27. (Amended) A kit for the detection of strains of *Pseudomonas aeruginosa*, comprising: (i) one or more nucleic acid molecules selected from the group consisting of: (a) an isolated nucleic acid molecule comprising at least 10 contiguous nucleotides from a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID No. 1; (b) SEQ ID No. 1; and (c) SEQ ID No. 2; and (ii) optionally substances for analytical detection processes.

28. (Amended) A kit for the detection of strains of *Pseudomonas aeruginosa*, comprising: (i) one or more nucleic acid molecules selected from the group consisting of: (a) An isolated nucleic acid molecule comprising at least 10 contiguous nucleotides wherein said molecule corresponds in 9 out of 10 contiguous nucleotides to a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID No. 1; (b) SEQ ID No. 1; and (c) SEQ ID No. 2; and (ii) optionally substances for analytical detection processes.

29. (Amended) A kit for the detection of strains of *Pseudomonas aeruginosa*, comprising: (i) one or more nucleic acid molecules selected from the group consisting of: (a) An isolated nucleic acid molecule comprising at least 10 contiguous nucleotides wherein said molecule corresponds in 8 out of 10 contiguous nucleotides to a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID No. 1; (b) SEQ ID No. 1; and (c) SEQ ID No. 2, and (ii) optionally substances for analytical detection processes.

30. (Amended) An isolated nucleic acid molecule as a component of a kit according to claim 26, comprising a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence as compared to that of SEQ ID No. 1.

31. (Amended) The isolated nucleic acid molecule according to claim 30, wherein the nucleic acid sequence contains 10 to not more nucleotides than SEQ ID NO. 1.

32. (Amended) The isolated nucleic acid molecule according to claim 30, wherein the nucleic acid sequence contains 15 to 30 nucleotides.

33. (Amended) An isolated nucleic acid molecule as a component of a kit according to claim 27, comprising at least 10 contiguous nucleotides from a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5

and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID No. 1.

34. (Amended) The isolated nucleic acid molecule according to claim 33, wherein the nucleic acid sequence contains 10 to not more nucleotides than SEQ ID NO. 1.

35. (Amended) The isolated nucleic acid molecule according to claim 33, wherein the nucleic acid sequence contains 15 to 30 nucleotides.

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36. (Amended) An isolated nucleic acid molecule as a component of a kit according to claim 28, comprising at least 10 contiguous nucleotides wherein said molecule corresponds in 9 out of 10 contiguous nucleotides to a nucleic acid sequence selected from the group consisting of SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule comprises is a shortened sequence compared to that of SEQ ID No. 1.

37. (Amended) The isolated nucleic acid molecule according to claim 36, wherein the nucleic acid sequence contains 10 to not more nucleotides than SEQ ID NO. 1.

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39. (Amended) An isolated nucleic acid molecule as a component of a kit according to claim 29, comprising at least 10 contiguous nucleotides from a nucleic acid sequence selected from the group consisting of SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule comprises

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a shorter sequence than that of SEQ ID No. 1 and said 10 contiguous nucleotides correspond to said nucleic acid molecule in 8 out of 10 contiguous nucleotides.

40. (Amended) The isolated nucleic acid molecule according to claim 39, wherein the nucleic acid sequence contains 10 to not more nucleotides than SEQ ID NO. 1.

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42. (Amended) An isolated nucleic acid molecule as a component of a kit according to claim 45, comprising at least 10 contiguous nucleotides, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID No. 1 and said 10 contiguous nucleotides are at least 90% homologous to a nucleic acid sequence selected from the group consisting of SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 4 and SEQ ID No. 5 and said nucleic acid sequences allow for the detection of bacteria of the *Pseudomonas* genus by means of nucleic acid hybridisation or amplification.

43. (Amended) The isolated nucleic acid molecule according to claim 42, wherein the nucleic acid sequence contains 10 to not more nucleotides than SEQ ID NO. 1.

44. (Amended) The isolated nucleic acid molecule according to claim 42, wherein the nucleic acid sequence contains 15 to 30 nucleotides.

Kindly add new claim 45 to read as follows:

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-- 45. A kit for the detection of strains of *Pseudomonas aeruginosa*, comprising:
(i) one or more nucleic acid molecules selected from the group consisting of: (a) an isolated nucleic acid molecule comprising at least 10 contiguous nucleotides wherein said at least 10

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contiguous nucleotides are at least 90% homologous to a nucleic acid sequence selected from the group consisting of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5 and the complement of SEQ ID No. 3, SEQ ID No. 4 and SEQ ID No. 5, wherein said nucleic acid molecule is a shortened sequence compared to that of SEQ ID NO. 1; (b) SEQ ID NO. 1; and (c) SEQ ID NO. 2; and (ii) optionally substances for analytical detection processes. - -